

**From:** [Hagerman, Paul](#)  
**To:** [Mitchell, Tanya](#); [Amy Darpinian](#)  
**Cc:** [Sivak, Michael](#); [Sy, William](#)  
**Subject:** RE: Rolling Knolls - minimum sampling volumes  
**Date:** Thursday, December 11, 2014 1:22:34 PM

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*Below is the minimum volume that we can supply to the CLP laboratory.*

*VOC – 1 HCL preserved vial – 40 ml*

*Metals and Mercury – 1 HNO3 preserved poly – 500 ml*

*Dissolved Metals and Mercury – 1 HNO3 preserved poly – 500 ml*

*SVOC – 1 amber unpreserved – 1 L*

*Pesticides - 1 amber unpreserved – 1 L*

*PCBs - 1 amber unpreserved – 1 L*

*Cyanide - 1 NaOH preserved poly – 500 ml*

*If there are no issues with the analyses at these minimum levels of volumes provided, then we will achieve standard reporting limits.*

Paul Hagerman, P.E.

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**From:** Mitchell, Tanya [mailto:[Mitchell.Tanya@epa.gov](mailto:Mitchell.Tanya@epa.gov)]

**Sent:** Tuesday, December 09, 2014 3:21 PM

**To:** Amy Darpinian; Hagerman, Paul

**Cc:** Sivak, Michael; Sy, William

**Subject:** Rolling Knolls

Hi Amy,

Please have CDM contact the CLP representative to determine the minimum volume that can be provided for VOCs, and TAL metals plus cyanide for the pore water samples. It appears that spilt samples were provided but, CDM is concerned that there is not going to be enough volume. Please review the QAPP volumes and the response from the CLP representative to determine if there will be enough volume for the VOCs and metals.

If you have any questions please contact Michael.

Thanks,

Tanya